

Correction to “ $\alpha 7\beta 2$ Nicotinic Acetylcholine Receptors Assemble, Function, and Are Activated Primarily via Their $\alpha 7$ - $\alpha 7$ Interfaces”

In Table 2 of the above article [Murray TA, Bertrand D, Papke RL, George AA, Pantoja R, Srinivasan R, Liu Q, Wu J, Whiteaker P, Lester HA, and Lukas RJ, (2012) *Mol Pharmacol* **81**:175–188], the concentration and EC₅₀ values for choline were entered incorrectly. The corrected data show a small but significant difference in the concentration and EC₅₀ values of choline between the $\alpha 7$ and $\alpha 7\beta 2$ nicotinic acetylcholine receptors (nAChR). These errors did not affect the conclusions regarding the assembly and activation of the $\alpha 7\beta 2$ nAChR receptor.

The authors regret these errors and any inconveniences that they may have caused.

The new table with the corrected values is presented below.

TABLE 2

Responses to agonists

Agonist-evoked responses in oocytes injected with wild-type or human nAChR subunits are shown for several agonists (mean \pm S.E.M.).

Oocytes were injected with $\alpha 7$ subunits alone, or with $\alpha 7$ and $\beta 2$ subunits at a 1:1 ratio. n refers to number of oocytes. Normalized I_{\max} for $\alpha 7\beta 2$ was calculated for a compound by dividing the mean maximum current (I_{\max}) recorded from oocytes expressing $\alpha 7\beta 2$ by the I_{\max} of cells expressing $\alpha 7$ receptors exposed to the same compound. Likewise, I_{\max} for $\alpha 7$ -expressing cells was divided by itself, such that the normalized $I_{\max} = 1$ for each compound.

Agonist and Subunit(s)	n	Normalized I_{\max}			EC ₅₀		
		Mean	S.E.M.	p	Mean ^b	S.E.M. ^b	p
					μM	μM	
Acetylcholine (1280 μM^a)							
$\alpha 7$	6	1.00	1.22	0.72	140.67	7.22	0.87
$\alpha 7\beta 2$	7	0.86	0.75		136.71	5.82	
Choline (19 mM ^a)							
$\alpha 7$	16	1.00	0.13	0.02	0.83	0.05	<0.01
$\alpha 7\beta 2$	12	0.55	0.05		1.19	0.07	
Carbachol (3200 μM^a)							
$\alpha 7$	13	1.00	0.46	0.04	339.69	6.77	0.57
$\alpha 7\beta 2$	21	0.63	0.12		361.76	6.40	
Epibatidine (10 μM^a)							
$\alpha 7$	9	1.00	0.15	0.002	1.17	0.18	0.01
$\alpha 7\beta 2$	8	0.47	0.20		2.25	0.27	
PNU-282987 (40 μM^a)							
$\alpha 7$	7	1.00	0.17	0.17	2.11	0.12	<0.001
$\alpha 7\beta 2$	6	1.12	0.31		4.37	0.21	

^a Agonist concentrations used to measure I_{\max} .

^b Choline is in units of mM; all other agonists are in units of μM .